IN THE CLAIMS

Claims 1, 13, 20 and 22 have been amended and claim 24 is new. Please cancel claim 16 without prejudice or disclaimer.

- 1. (Currently Amended) A logic emulation module comprising:
- a plurality of programmable LSIs capable of programming logic;
- a plurality of switching LSIs capable of programming connections between said plurality of programmable LSIs;

connectors for electrical connection to entities external to the module;

a board on which to mount said plurality of programmable LSIs, said plurality of switching LSIs and said connectors; and

wiring furnished on said board for carrying data during emulation;

wherein said wiring at least includes lines for directly coupling said connectors to said programmable LSIs and lines for linking said connectors to said programmable LSIs by way of said switching LSIs; and

wherein on said logic emulation module, at least a part of logically equivalent functions to an LSI to be developed are mounted on a logic board prepared for logic

verification, is realized without distinction between core cell and peripheral logic, and

wherein one each of said plurality of programmable

LSIs is directly connected to another all of the other of said

plurality of programmable LSIs and is coupled to said another

of said plurality of programmable LSIs via one of all of said

plurality of switching LSIs.

2-4. (Canceled).

- 5. (Original) A logic emulation module according to claim 1, wherein said plurality of programmable LSIs and said plurality of switching LSIs are mounted on a face and a back of said board.
- 6. (Original) A logic emulation module according to claim 5, wherein said LSIs are mounted in opposite fashion on said face and said back of said board, and wherein signal lands shared by said LSIs are positioned in opposite fashion on the two sides of said board, said signal lands being interconnected by use of through-holes.
- 7. (Original) A logic emulation module according to claim 6, wherein said programmable LSIs are mounted on said

face of said board, and said switching LSIs and connectors for connection to a logic board are mounted on said back of said board.

- 8. (Original) A logic emulation module according to claim 1, wherein said connectors are furnished on a face and a back of said board.
- 9. (Original) A logic emulation module according to claim 8, wherein, of pins on said connectors, at least those for power supply and ground lines are positioned in opposite fashion on said face and said back of said board and connected by use of through-holes.
 - 10-12. (Canceled).
- 13. (Currently Amended) A logic module on a board, at least on one side of said board comprising:
 - a plurality of programmable logic elements;

connectors for exchanging input and output signals to and from said plurality of programmable logic elements; and

switching elements for controlling connections between said plurality of programmable logic elements; and

terminal lands for supporting an LSI targeted for development and mounted on said board,

wherein said plurality of programmable logic elements are connected either to said connectors or to said switching elements; and

wherein logic data for logic verification are programmed in said plurality of programmable logic elements; and

wherein ene_each of said plurality of programmable logic elements is directly connected to another all of the other of said plurality of programmable logic elements and is coupled to said another of said plurality of programmable logic elements via one all of said switching elements.

- 14. (Original) A logic module according to claim 13, wherein said connectors are furnished on a first and a second side of said board at the same edge thereof, and wherein some of oppositely located terminals of said connectors on said first and said second side of said board transmit the same signal each.
- 15. (Original) A logic module according to claim 13, wherein said plurality of programmable logic elements are furnished on at least part of a first side of said board;

wherein said switching elements are located on a second side of said board in opposite relation with said plurality of programmable logic elements;

wherein a second board with a predetermined land layout is interposed between said plurality of programmable logic elements or said switching elements on the one hand and said board on the other hand; and

wherein some of terminals provided for said plurality of programmable logic elements and dealing with the same signals as some of terminals provided for said switching elements are connected to the latter terminals by through-holes furnished on said second board.

16-19. (Canceled)

- 20. (Currently Amended) A logic module comprising:
- a plurality of programmable large-scale integrated circuits in which logic may be programmed;
- a plurality of switching large-scale integrated circuits in which connections may be programmed;
- a board for supporting said programmable large-scale integrated circuits and said switching large-scale integrated circuits;

a connector for transmitting signals of said programmable large-scale integrated circuits;

a terminal band for supporting an LSI targeted for development and mounted on said board;

first wirings for connecting each of said plurality of programmable large-scale integrated circuits to all of said plurality of switching large-scale integrated circuits;

second wirings for interconnecting between each of said plurality of programmable large-scale integrated circuits and all of the other said plurality of programmable large-scale integrated circuits;

third wirings for connecting each of said plurality of programmable large-scale integrated circuits to said connector; and

fourth wirings for connecting <u>each of said plurality of</u> switching large-scale integrated circuits to said connector;

wherein said first through said fourth wiring are used to connect logic signals constituting logic.

21. (Original) A logic module according to claim 20, wherein said connector is made of a first and a second connector located in opposite relation with each other on said logic board;

wherein oppositely positioned first terminals of said first and said second connector transmit a first control signal connected in parallel to said programmable large-scale integrated circuits and said switching large-scale integrated circuits;

wherein oppositely positioned second terminals of said first and said second connector transmit an input signal of a second control signal connecting said programmable large-scale integrated circuits to said switching large-scale integrated circuits in series; and

wherein oppositely positioned third terminals of said first and said second connector transmit an output signal of said second control signal connecting said programmable large-scale integrated circuits to said switching large-scale integrated circuits in series.

22. (Currently Amended) A multi-chip module comprising:
a plurality of integrated circuits;

connectors for electrical connection to entities external to the module;

a board on which to mount said plurality of integrated circuits and said connectors, said integrated circuits and said connectors being mounted on a first side of said board

and a second side which is opposite to the first side of said board;

first and second radiation plates attached to four corners of said multi-chip module for covering said integrated circuits;

first metal spacers interposed between said first radiation plates and the first side of said board, said metal spacers being attached to the four corners of said multi-chip module with said first radiation plates; and

second metal spacers interposed between said second radiation plate and the second side of said board, said metal spacers being attached to the four corners of said multi-chip module with said second radiation plate;

a <u>first</u> heat conduction sheet interposed between said integrated circuits <u>mounted on the first side of said board</u> and said <u>first</u> radiation plates; and

a second heat conduction sheet interposed between said integrated circuit mounted on the second side of said board and said second radiation plate,

wherein said heat conduction sheet elastically conforms to and closely contacts the shapes of said integrated circuits, and

--- wherein said integrated circuits are mounted on a first and a second side of said board;

--- wherein said first and said second side of said board are provides with said radiation plates;

wherein one edge of a flexible heat conduction sheet is attached to the <u>first</u> radiation plates on of said first side of said board; and

wherein another edge of said flexible heat conduction sheet is attached to the second radiation plates on said second side of said board, and

wherein the opposite plane of the radiation plates—on of the first side of said board is capable of providing with an integrated circuit mounted on another board.

23. (Canceled).

24. (New) A logic module according to claim 13, furthe
comprising:
Comprising.
a plurality of terminal lands for connecting
terminals of said plurality of programmable logic elements,
wherein said plurality of terminal lands and said
connectors are located in peripheral portions of said board
where said programmable logic elements are mounted,
wherein said terminal lands and terminals of said
connectors are linked on a one-to-one basis, and

wherein each of said connectors is stacking type connector.